Electronic Supplementary Material (ESI) for Analytical Methods.

Supporting Information

A dense SERS substrate of AgNPs@GO compound film for detecting homocysteine molecules

Song He[1,2], Li Yang[2,3], Tianwen Xu[2,3], Xishun Peng[2,3], Qixin chen[3], Xinghua Li[3], Yiheng Yuan[2,3], Cheng Zuo[3], Xin Zhang[3], Zhongchen Bai[2,3*]

[1.] Guizhou provincial people's hospital, Guiyang City, 550002, China

[2.] College of Medicine, Guizhou University, Guiyang City, 550025, China

[3.] Guizhou Province Key Lab. for Photoelectric Technology and Application, Guizhou University, Guiyang City, 550025, China.

E-mail: zcbai@gzu.edu.cn

Supporting Figures

1. Figure S1

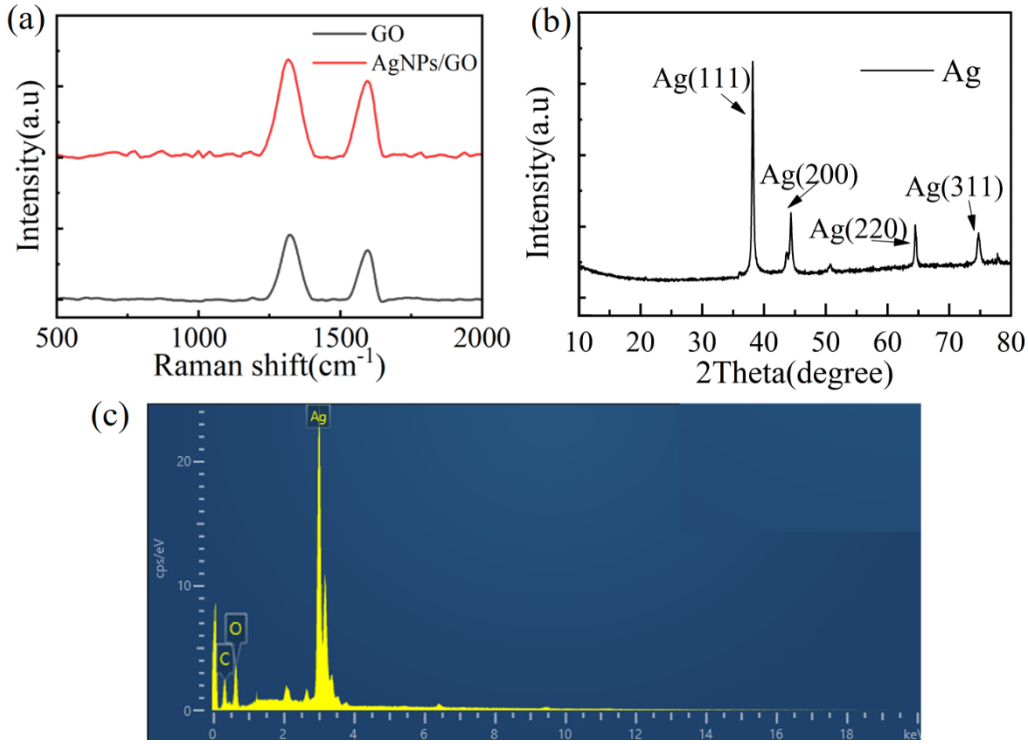

Figure S1. (a) Raman spectra of GO and AgNPs@GO; (b) XRD picture of AgNPs of AgNPs@GO; (c) EDS spectrum of AgNPs@GO SERS substrate.

2. Figure S2

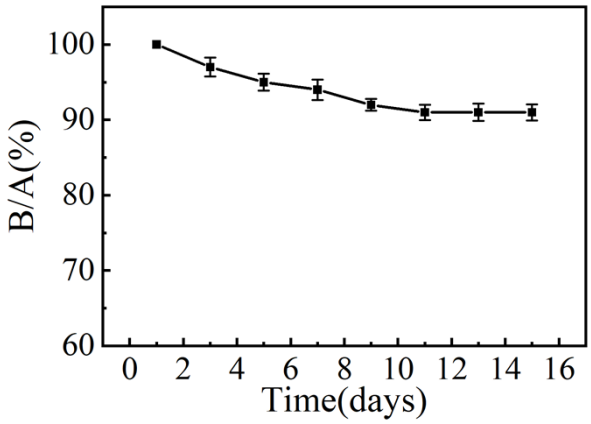

Figure S2. Stability of the optimal AgNPs@GO SERS substrate.

Supporting Tables

Table S1. SERS enhancement factors of different electrodeposition times.

Samples	1	2	3	4	5	6
Depositing time (min)	0	10	20	30	40	50
Peak value (units)	23	1036	11958.1	26126.9	23604.8	19165.2
Enhancement factor (EF)	None	450.4	5199.1	11359.5	10262.9	8333.0